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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,815	10/19/2004	Toni Kopra	KOLS.152US	8824
Hollingsworth	7590 04/27/2007 & Funk, LLC	EXAMINER		
Suite 125			LU, ZHIYU	
8009 34th Ave Minneapolis, N		,	ART UNIT	PAPER NUMBER
• . *			2618	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
	10/511,815	KOPRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zhiyu Lu	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover	sheet with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period variety reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS CO 36(a). In no event, hower will apply and will expire Se, cause the application to	MMUNICATION. ver, may a reply be timely filed IX (6) MONTHS from the mailing date of this communication. become ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 Fe	ebruary 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from considera	•				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objection of the discourse o	in abeyance. See 37 CFR 1.85(a). e drawing(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) 🔲	Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application Other:				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 02/08/2007 have been fully considered but they are not persuasive.

Regarding rejections on claims 1-4, 6, 8-14, 16, 18-24 and 26, Applicants have argued that "index data" of Nakatsuyama does not correspond to the claimed content item, such as at least one of a text, an audio, a video, an image, and a multimedia presentation.

However, independent claims 1, 11 and 21 do not disclose such limitation. Thus, either one of two signals, index data signal and program data signal, disclosed by Nakatsuyama can be considered as the content item. Moreover, both index data signal and program data signal are continuously broadcast and capable of providing synchronization (column 7 lines 49-58). So, in dependent claims 8 and 18, the content item is interpreted as program data signal of Nakatsuyama, which contains at least one of a text, an audio, a video, an image, and a multimedia presentation.

Thus, the rejections are proper and maintained.

2. Applicant's arguments, see REMARKS, filed 02/08/2007, with respect to the rejection(s) of claim(s) 5, 7, 15, 17 and 25 under 103 have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Nakatsuyama, Lake et al., and Kelly et al.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4, 6, 8-14, 16, 18-24 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakatsuyama (US Patent#6658231).

Regarding claim 11, Nakatsuyama anticipates a media system including a broadcasting system configured to broadcast a broadcast media stream, the media system comprising:

a radio system (230 of Fig. 5) communicating with the broadcasting system (17, 28-29, and 208A-B of Fig. 5) and one or more user terminals (220 of Fig. 5).

the broadcasting system is further configured to attach one or more content items to a broadcasting time line of the broadcast media stream in the broadcasting system (Fig. 1, column 7 lines 57-65, column 13 line 62 to column 14 line 3);

the user terminal is configured to synchronize an internal time of the user terminal with the internal time of the broadcasting system (Fig. 1, column 7 lines 45-53, column 13 lines 38-45);

the radio system is configured to send the content item attached to the broadcasting time line of the broadcast media stream to the user terminal (column 7 lines 57-65, column 13 line 62 to column 14 line 3); and

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the user terminal is further configured to present the received content item in the user terminal during the presentation of the broadcasted broadcast media stream and at a given moment in time that is determined based on the attachment of the content item to the broadcasting time line and on the synchronization of the internal time of the user terminal with the internal time of the broadcasting system (column 7 lines 57-65, column 13 line 62 to column 14 line 3).

Regarding claim 1, Nakatsuyama anticipates a method of providing one or more content items to at least one user terminal of a radio system, the content item being related to a broadcast media stream, as explained in response to claim 11 above.

Regarding claim 21, Nakatsuyama anticipates a user terminal of a radio system, wherein the user terminal (40 of Figs. 1-2) is configured to:

synchronize the internal time of the user terminal with the internal time of a broadcasting system (column 7 lines 45-53);

receiving one or more content items through the radio system which content items are attached to a broadcast media stream of the broadcasting system (column 7 lines 57-65); and

present the received content items attached to the broadcast media stream during the presentation of the broadcasted broadcast media stream and at a given moment in time that is determined based on the synchronization of the internal time of the user terminal with the internal time of the broadcasting system (column 7 lines 57-65, column 8 lines 35-63).

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Regarding claims 2, 12 and 22, Nakatsuyama anticipates the limitations of claims 1, 11 and 21. Nakatsuyama also anticipates further comprising sending synchronization data to the user terminal for synchronizing the internal time of the user terminal with the internal time of the broadcasting system and synchronizing the internal time of the user terminal based on the received synchronization data (Figs. 1 and 5, column 7 lines 45-53, column 13 lines 38-45).

Regarding claims 3 and 13, Nakatsuyama anticipates the limitations of claims 1 and 11. Nakatsuyama also anticipates further comprising synchronizing the internal time of the radio system with the internal time of the broadcast system (inherent in Fig. 5 and column 11 line 49 to column 12 line 50) and sending the synchronization data from the radio system to the user terminal (column 13 lines 38-45).

Note that time synchronization data is sent via radio system to terminal and program data is broadcasted via broadcast system according to the same time data, furthermore both systems are within the same main system, internal time synchronization is thus inherited.

Regarding claims 4, 14 and 23, Nakatsuyama anticipates the limitations of claims 2, 12 and 22. Nakatsuyama also anticipates further comprising sending synchronization data with the broadcast media stream broadcasted by the broadcasting system to the user terminal (column 13 lines 38-45).

Regarding claims 6, 16 and 24, Nakatsuyama anticipates the limitations of claims 1, 11 and 21.

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Nakatsuyama also anticipates synchronization of the internal time of the user terminal with the internal time of the broadcasting system comprises executing a synchronization algorithm in the user terminal (Figs. 1 and 5, column 7 lines 45-53, column 13 lines 38-45).

Regarding claims 8 and 18. Nakatsuvama anticipates the limitations of claims 1 and 11. Nakatsuyama also anticipates the content item comprises one or more of the following: a text, an audio, a video, an image, a multimedia presentation, and a series of these or any combination thereof (column 9 lines 48-67).

Regarding claims 9, 19 and 26, Nakatsuyama anticipates the limitations of claims 1, 11 and 21. Nakatsuvama also anticipates the content item comprises an object identification of an object and the method further comprises sending a transaction signal with the object identification from the user terminal to the radio system and delivering the object of the object identification to the user terminal through the radio system (column 12 lines 18-50).

Regarding claims 10 and 20, Nakatsuyama anticipates the limitations of claims 1 and 11. Nakatsuyama also anticipates further comprising attaching the content item to the broadcast media stream by defining the content item's availability to the presentation prior, during and after the broadcast of the broadcast media stream (column 7 lines 57-65, column 9 lines 12-67). Application/Control Number: 10/511,815

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Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakatsuyama (US Patent#6658231) in view of Lake et al. (US Patent#6975835).

 Regarding claims 5 and 15, Nakatsuyama teaches the limitations of claims 4 and 14.

 But, Nakatsuyama does not expressly disclose further comprising using a Radio Data System (RDS) for sending the synchronization data from the broadcasting system.

Lake et al. teach using a Radio Data System (RDS) for sending the synchronization data from the broadcasting system (column 1 lines 35-40, column 2 lines 35-42).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate using a RDS for sending the synchronization data from the broadcasting system of Lake et al. into the method and media system of Nakatsuyama, in order to utilize national broadcasting standard for sending digital information.

5. Claims 7, 17 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakatsuyama (US Patent#6658231) in view of Kelly et al. (US2002/0105976).

Regarding claims 7, 17 and 25, Nakatsuyama teaches the limitations of claims 6, 16 and 24.

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But, Nakatsuyama does not expressly disclose the synchronization algorithm comprise: sending signals from the user terminal to the radio system; calculating round trip delays of said signals; calculating the difference between the internal times of the user terminal and the radio system; and synchronizing the internal time of the user terminal based on the calculated difference between the internal times.

Kelly et al. teach a synchronization algorithm comprise: sending signals from the user terminal to the radio system; calculating round trip delays of said signals; calculating the difference between the internal times of the user terminal and the radio system; and synchronizing the internal time of the user terminal based on the calculated difference between the internal times (paragraphs 0025-0026).

Therefore, it would have been obvious to one of ordinary skill in the art to incorporate the synchronization algorithm of Kelly et al. into the method and media system of Nakatsuyama, in order to provide accurate time synchronization.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhiyu Lu whose telephone number is (571) 272-2837. The examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhiyu Lu

April 16, 2007

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NAY MAUNG SUPERVISORY PATENT EXAMINER

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